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Separate paging is given on this part in order that it may be filed as a separate compilation.

PART-IX

Advertisements and Notices by Government Offices and Public Service

NOTICES

STANDARD FORM OF APPLICATION

Photo

Dated

To,

.....
.....

Sir/Madam,

I beg to apply for the post of
and furnish the facts as below. In case of any false statement, I am liable to any action Govt. may deem fit
and proper. A Treasury Challan of ₹ vide T. V. No. is attached herewith.

Signature of the Applicant.

.....

1. Full name in CAPITAL LETTERS with aliases, if any, surname first (Please do not use any initials):

.....

2. Date of Birth : Year Month Date

3. Place of Birth : Village/Town Police Station District

4. Father's/Mother's and Husband's name (in case of married female) (Please do not use initials):

.....

5. Personal description :

(a) Height:..... M. Cm.

(b) Colour of eyes:

(c) Colour of hair:

(d) Visible distinguishing marks (if any):.....

6. (a) Permanent address in full: (b) Present address in full:

.....

.....

.....

.....

.....

(c) If you have not resided at the above address continuously for the last four years, please give the

other addresses where you have resided during the period.

.....

From

To

Address

7. References:-

Name and address of two responsible persons in your localities who would be prepared to vouch for you:

.....

8. Are you citizen of India? If so, how? (Copy of a Citizenship Certificate should be enclosed where necessary).

.....

9. Educational and other qualifications (Please attached copies of Certificates, Mark Sheets etc.)

Sl. No.	Name of Institution	Date of entering	Date of leaving	Examination passed	Division	Subjects taken
1	2	3	4	5	6	7
1						
2						
3						
4						
5						

10. Community:

(a) State your religion:

(b) Are you a member of Scheduled Castes/Scheduled Tribes (Answer 'Yes' or 'No'. If 'Yes' give particulars supported by a Certificate (Copy to be enclosed).

.....

11. Present occupation, if any:

12. Previous appointment held, if any:

13. Are you a temporary/retrenched personnel of temporary Department, Government of Meghalaya (Answer "Yes" or "No". (If "Yes" give particulars):

.....

14. Are you trained in or a member of the National Cadet Corps/Territorial Army/Scout or Guides? If so, give particulars.

.....

15. Are you married or unmarried?

Signature

.....

Note:- (i) Modified *vide* Govt. O.M. No.PER(AR).123/78/143-A, dated 26th September, 2016.

(ii) Particulars are to be filled in below the column in the space provided.

OFFICE OF THE DIRECTOR GENERAL OF POLICE
MEGHALAYA, SHILLONG

Shillong, the 9th February, 2021.

CANCELLATION NOTICE

No.MPF/13/2015-2016/Pt.I/146. – Reference Short Tender Notice floated vide this office Memo No.MPF/13/2015-2016/Pt.I/143, dated 4th February, 2021 the Short Tender Notice hereby stands **CANCELLED**. Fresh NIT will be issued soon.

Asstt. Inspector General of Police (A)
Meghalaya, Shillong.

OFFICE OF THE DIRECTOR GENERAL OF POLICE
MEGHALAYA, SHILLONG

Shillong, the 15th February, 2021.

ADDENDUM

No.MPF/10/2018-19/FSL/ST/56. - In continuation to the Short Tender Notice floated by this office *vide* Letter No.MPF/10/2018-19/FSL/ST/54, dated 8th February, 2021 in connection with procurement of items for setting up of DNA Lab at FSL, the revised list of items and detail specifications along with mandatory terms and conditions are enclosed as per **Annexure "A"**.

Further, the date for receiving of tenders is refixed upto **1200 hrs.** on **5th March, 2021** and to be opened at **1400 hrs.** on the same day.

Asstt. Inspector General of Police (A)
Meghalaya, Shillong.

OFFICE OF THE DIRECTOR, FORENSIC SCIENCE LABORATORY,
MAWDIANGDIANG, MEGHALAYA

LIST OF ITEMS FOR DNA PROFILING UNIT

Sl. No.	Name	Quantity	Remarks
1	AB 3500 Genetic Analyzer for HID (8 capillary system) with Gene Mapper ID-X version 1.6 software	1	
2	RT-PCR with HID validation certificate	1	
3	24-plex Autosomal STR Kit	1	To be included in Sl. no. 1
4	Y-STR Kit	1	To be included in Sl. no. 1
5	Human and Human/Male DNA Quantitation Kits	1	To be included in Sl. no. 2
6	Size standard, POP-4, Buffers, other consumables for the functioning of Genetic Analyzer	1	To be included in Sl. no. 1
7	Thermo mixer with inter-changeable block	1	
8	Set of Micropipettes 05 -10 µl, 2-20 µl, 20-200 µl, 100-1000µl	6	
9	Table Top Refrigerated High Speed Centrifuge (with 1.5/2 ml and 15/50 ml rotors and adaptors)	1	
10	Online UPS 10 KVA (3KVA+3KVA+4KVA) with 90 min back up each	1+1+1	
11	Laminar air flow	1	
12	PCR Workstation	1	
13	Rotator (1.5 ml/2ml to 15/50 ml clamps or adaptors)	1	
14	Magnetic stirrer cum Hot Plate (with both heating and non-heating features)	1	
15	Vortex mixer	1	
16	Tray Shaker (without incubation)	1	
17	pH meter	1	
18	Microwave oven	1	
19	-20°C Ultra low temperature Freezer	1	
20	Refrigerator	2	
21	4° C Upright Chiller	1	
22	Air conditioner	1	
23	General plasticware (microtips, microcentrifuge tubes, centrifuge tubes, PCR tubes, 96 well plates, DNA molecular weight cutter filters, etc.) and Disposables; Glasswares; and Molecular Biology chemicals and consumables		

SPECIFICATIONS OF THE EQUIPMENT

The equipment/items must have specifications equivalent or better than the following:

1. GENETIC ANALYSER

Sl. No.	Prescribed specifications; equivalent or better
1	Fluorescence based 8 capillary electrophoresis system along with all hardware and software needed for generating DNA profiles from different types of forensic samples. The system and all major accessories should be validated as per the SWGDM guidelines for forensic DNA testing.
2	The system should be capable of doing both fragment analysis and sequencing application. The instrument should come along with fragment analysis and sequencing software for performing fragment analysis and sequencing applications.
3	Capillaries should be uncoated internally with new generation of polymer optimized for its performance for medium to high throughput DNA sequencing and fragment analysis requirements.
4	The system should have capability for tracking consumables using RFID technology to monitor usage, lot nos., part nos., expiry dates, and on instrument lifetime.
5	The instrument should use virtual filters and peltier cooled charged coupled device (CCD) camera. The excitation of all fluorescent dyes should be by a long solid state laser. The instrument should be capable of detecting minimum six fluorescent dyes.
6	Forensic specific validated software (as per SWGDM and DAB guidelines) for data analysis along with operating hardware specs 2.00 GHz, windows 7, 2 GB, 250 GB HDD, CD/RW or latest configuration.
7	The equipment should be capable of analysing different forensic DNA samples especially for identification of: <ul style="list-style-type: none"> ➤ Autosomal-STRs. ➤ Y-STRs. ➤ X-STRs and ➤ Sequencing of DNA fragments.
8	Equipment should be validated for running different commercially available forensic STR kits from original manufacturers for applications in forensic laboratory.
9	Equipment should have pre-installed licensed software for analysis of STRs and sequencing data.
10	Equipment should be user friendly and fully compatible for examination of forensic DNA samples.
11	Equipment should be of latest version, upgradable with software pre-installed, free of cost. Up gradation of compatible software, if any required, should be free of cost for next five years from the date of installation.
12	The equipment must include: <ul style="list-style-type: none"> ➤ 3500 HID & sequencing inst kit each. ➤ SW- Genemapper ID-X Full V1.61 Kit. ➤ DS-36 matrix standard kit (dye set J6). ➤ Gene Scan™ 600 LIZ™ size std v 2.0 each. ➤ SW.SS and SEQA each. ➤ POP.4(960) polymer 3500 series each. ➤ Cathode buffer container 3500 series each. ➤ Anode buffer container 3500 series each. ➤ HI-DI Formamide 4x5 ml bottle each. ➤ SEPTA-8 strip RUO 3500 each.

	<ul style="list-style-type: none"> ➤ Microamp 96-well RXN plate- EA No Barcode. ➤ 24-plex autosomal STR amplification kit. ➤ 24-plex Y-STR amplification kit.
13	Power backup: A compatible online 3 KVA UPS with 90 minutes back-up should be provided for the complete setup.
14	All the relevant brochure and certifications should be provided for adherence of the submitted compliance sheet for the tendered specification.
15	The satisfactory performance report should be attached. User list for at least 20 users in India should be attached with their contact details.
16	<p>Mandatory Terms and Conditions.</p> <ul style="list-style-type: none"> ➤ The firm should provide a 2 year warranty from date of installation plus comprehensive AMC (including spare parts and consumables for running machine) for next five years after the expiry of warranty period. AMC rate per annum should be quoted, separately. ➤ Company should have after sale, service support based in India. ➤ The company should quote price of consumable kits for analysis of minimum 2 x 200 rxns Autosomal kits and 100 rxns Y-STR kit annually, for five years separately. ➤ Latest configuration hardware (desktop and printer) compatible to support the software must be included. ➤ On-site installation and demonstration of equipment should include necessary literature, operational procedures/manual and training of the end users in the laboratory. ➤ Pre-installation requirement of the equipment should be mentioned at the time of submitting tender document.

2. RT-PCR WITH HID VALIDATION CERTIFICATE

Sl. No.	Prescribed Specifications; equivalent or better
1	An integrated system for both Real-Time PCR & post-PCR (end-Point) analysis using in built peltier or air based PCR Machine or with better upgraded technology, with 96 well block or rotor format.
2	The system should be up to 96 well peltier/air-based.
3	Maximum ramp of the system rate should be 3°C/sec or more.
4	The instrument should have flexibility to either used individual tube, 8 tube strips or 96 well plate.
5	The system should have temperature range from ambient or 4 °C to 99 °C.
6	The systems should have wizard to automatically calculate standards and dilutions, with the ability to set up multiple standard curves.
7	The instrument should use bright white LED as excitation source with lifetime warranty.
8	The instrument should have separate filter dedicated for high resolution melt curve analysis. The instrument should be open for calibration of new dyes without requiring the addition of new filter sets.
9	The instrument software should have specific quality flags and analysis summary that allow users to quickly assess the DNA sample quality and identify samples that need further review. Software should come with at least single user license.
10	Dilution calculation and reaction setup tools should be available to speed up STR analysis workflow.
11	Should be an open system capable of running various chemistries such as Taqman, Molecular Beacon, SYBR green etc.
12	The system should be validated/certified for quantitating human and human/male DNA by latest forensic quantitation kits of different original manufacturers.

13	<p>The system should include:</p> <ul style="list-style-type: none"> ➤ 96-well (std) 0.2ml background ROI plate. ➤ Fast 96 well RNASE P VERIF plate. ➤ Taqman fast reagents starter kit. ➤ Human DNA quantitation kit. ➤ Human/Male DNA quantitation kit (latest kit with inhibition index/indicator).
14	<p>The system should be provided with User friendly upgradable software with following features:</p> <ul style="list-style-type: none"> ➤ Software should support performing absolute quantification, Relative quantification, allelic discrimination, Plus/Minus assays. ➤ The software must allow Dye discrimination and multi component algorithm. ➤ The software must allow sample quality assessment by determination of Male: Female ratio; inhibition and degradation index along with this it should be capable of calculating dilution and reaction set-up for downstream applications like STR profiling using Human Identification Kits. ➤ Latest configuration hardware (desktop and printer) compatible to support the software. <p>Consumables: Start-up consumables for at least 200 rxns each for Human and Human/Male DNA quantitation kits.</p>
15	<p>Mandatory Terms and Conditions.</p> <ul style="list-style-type: none"> ➤ The firm should provide a 2 year warranty from date of installation plus comprehensive AMC (including spare parts and consumables for running machine) for next five years after the expiry of warranty period. AMC rate per annum should be quoted, separately. ➤ Company should have after sale, service support based in India. ➤ Onsite installation and demonstration of equipment should include necessary literature, operational procedures/manual and training of the end users in the laboratory. ➤ Pre-installation requirement of the equipment should be mentioned at the time of submitting tender document.
16	Instrument operational training and wet lab application training should be provided by the vendor at our institute.

3. THERMOMIXER WITH INTER-CHANGEABLE BLOCK

Sl. No.	Prescribed Specifications; equivalent or better
1	Digital Vortex Mixer should have 3 in 1 option like mixing, heating and cooling for all tubes and plate format of 5 µl to 50 ml and have maximum speed of 3000 rpm.
2	System should have a temperature control range from 15°C below RT to 100°C.
3	System should be able to set from 15 sec to 99:30 h or continuous mode.
4	System should have thermo top to avoid condensate formation and sample evaporation.
5	Compatible with Eppendorf ThermoTop (condens.protect®) for condensation-free sample handling.
6	System should be supplied with 1.5 ml X 24 thermo lid with extender.
7	Predefined temperature keys (37°C, 42°C, 56°C, and 95°C) for simple and intuitive operation.
8	Very fast heat up speed of up to 18°C/min, reducing your waiting time.
9	Supporting literature of equipment with detailed specifications.
10	Warranty: 2 years from date of installation.

4. SIX SETS OF MICROPIPETTES

Sl. No.	Prescribed Specifications; equivalent or better
1	Single channel variable volume micropipette, adjustable volume.
2	Spring loaded tip cone for connecting tips very tightly.
3	Control button with very low operation force, colour indication for pipette volume.
4	Tip ejector with very low operating force, positioned for perfect ergonomics.
5	Volume display: 4 Digits with magnifier.
6	Secure volume lock to prevent undesirable volume drift during operation.
7	Volume range: Each set must have 0.5 - 10µl, 2-20 µl, 20-200 µl, 100-1000µl pipettes.
8	A micropipette stand/carousel must be included with each set.
9	Must be able to regulate the piston movement speed to pipette higher viscosity (for eg. Glycerol) and lower viscosity (for eg. Chloroform) liquids.
10	Calibration seal for optimal GLP specifications.
11	Supporting literature of equipment with detailed specifications.
12	Warranty: 2 years from date of installation.

5. TABLE TOP REFRIGERATED HIGH SPEED CENTRIFUGE

Sl. No.	Prescribed Specifications; equivalent or better
1	Instrument should be supplied with temperature control range: -11°C to 40°C, should be able to maintain 4°C at maximum speed.
2	Instrument should be supplied with rotor for 30 x 1.5/2.0 ml with speed 14,000 rpm or better.
3	Instrument should be supplied with rotor for 6 x 15/50 ml with speed 7,800 rpm / 7700 x g or better.
4	Centrifuge should have the facility for rapid cooling and continuous cooling following centrifugation.
5	Centrifuge should have feature for minimum 5 direct key programming facilities and maximum 50 programming facility in the memory.
6	All rotors and rotor lids should be autoclavable.
7	Centrifuge should have CE, UL, ISO 9001, ISO 13485, ISO 14001 Certified and IVD compliance.
8	Instrument should have automatic rotor recognition facility to automatically recognize and set maximum speed upon rotor change.
9	Centrifuge should have max RPM of 17,500 or better.
10	Centrifuge should have Max RCF of 30,130 x g or better.
11	User-friendly digital display for time and speed.
12	Soft-touch lid closure for ergonomic lid locking.
13	Automatic lid opening at the end of the run to prevent sample warming and to allow easy access to samples.
14	Supporting literature of equipment with detailed specifications.
15	Warranty: 2 years from date of installation.

6. ONLINE UPS 10 KVA WITH 90 MIN BACK UP

Sl. No.	Prescribed Specifications; equivalent or better
1	Capacity: To be split into three individual smaller load devices: 3KVA + 3KVA + 4 KVA, each with 90 minutes back up.
2	Topology: True online Double conversion.
3	Control panel: Multifunction LCD Status and control console.
4	Intelligent transient surge, voltage fluctuations, and spike protection system should be available.
5	Bypass: Built-in Static and Maintenance Bypass.
6	Inverter efficiency: Better than 90%.
7	Battery type: Sealed Lead-Acid, Maintenance free.
8	Output Waveform type: Sinusoidal (sine wave output).
9	Supporting literature of equipment with detailed specifications.
10	Certification: ISO 9001;14001;27001; OHSAS18001;CE;ITL9000 (Mandatory with proof)
11	Warranty: 2 years comprehensive on-site OEM warranty including batteries; from date of installation.

7. LAMINAR AIR FLOW

Sl. No.	Prescribed Specifications; equivalent or better
1	Class 2 type A2 protection.
2	Size: 3 feet.
3	UV resistant laminated safety sash with > 6mm thickness.
4	Inflow velocity >100 FPM.
5	HEPA filter with efficiency of > 99.99 % along with ISO class 5 cleanliness.
6	Internal work area should be made up of single piece 16G type 304 stainless steel.
7	Internal work area should have >690 mm.
8	Cable port feature for safe and ergonomic way of introducing cable in to the work area.
9	Cabinet should have ss diffuser for filter protection and uniform air flow.
10	Flow type: Horizontal.
11	Supporting literature of equipment with detailed specifications.
12	Warranty: 2 years from date of installation.

8. PCR WORKSTATION

Sl. No.	Prescribed Specifications; equivalent or better
1	It should offer twin decontamination action by UV inactivation of airborne and surface-bound contaminants and therefore an ideal environment for PCR sample preparation and other sensitive protocol.
2	It should have antimicrobial work surface made of stainless steel.
3	Should have one inbuilt pipette stand.
4	At least one UV tube and one white light tube internal.
5	Large working area of 72 x 54 cm (L x D).
6	Electrical supply: 230 V/50 Hz (EU/UK version), A. C supply.
7	Front and side panels should protect user from UV irradiation.
8	Internal power outlets for operating equipment such as mini centrifuge or vortex allow the combination of several working steps without interruption of the workflow.
9	Supporting literature of equipment with detailed specifications.
10	Warranty: 2 years from date of installation.

9. ROTATOR

Sl. No.	Prescribed Specifications; equivalent or better
1	Ideal for biological samples, particularly blood samples.
2	Suitable for separating and mixing processes of powdered and liquid samples in Eppendorf tubes and Greiner tubes up to 50 ml.
3	Type of movement rotating.
4	Speed Range (Adjustable) from 0-80 rpm.
5	Speed control rpm step with LED speed display.
6	Timer setting & display: Timer: 1 sec - 5999 min, Display 7 segments LED.
7	Tilt angle turntable minimum: 0°; maximum: 90°.
8	Accessories to be supplied: Universal Disc one, Spare Clops for 1.5ml/2.0 ml tubes, 15ml tubes and 50ml tubes, 12 each.
9	Supporting literature of equipment with detailed specifications.
10	Warranty: 2 years from date of installation.

10. MAGNETIC STIRRER CUM HOT PLATE

Sl. No.	Prescribed Specifications; equivalent or better
1	Magnetic stirrer with heating and ceramic or stainless steel heating plate which offers excellent chemical resistance.
2	Powerful motor for stirring quantities of up to 10 litres or more (H ₂ O).
3	Speed range: 0 to 1500 rpm.
4	Simultaneous digital display of target and actual temperatures via LCD display.
5	Heating temperature range: 50°C to 500°C with step less heating controller.
6	Heating rate: 5k/min or higher.
7	Fixed safety circuit of 550°C.
8	Top plate dimensions (mm) 260 x 260 or bigger.
9	Equipment must be included with magnetic stirring bars and magnetic stirring bar retriever.
10	Equipment must possess versatility and offer Heating-Stirring, Heating-Non-stirring, Non-heating-Stirring and simple heating features simultaneously.
11	Should have IVD conformity.
12	Supporting literature of equipment with detailed specifications.
13	Warranty: 2 years from date of installation.

11. VORTEX MIXER

Sl. No.	Prescribed Specifications; equivalent or better
1	Must have mixing and vortexing capability.
2	Controllable speed range from 300 to 3000 rpm with tubes 1.5/2ml and higher volumes.
3	Touch and continuous vortex capability.
4	Should have IVD conformity.
5	Supporting literature of equipment with detailed specifications.
6	Warranty: 2 years from date of installation.

12. TRAY SHAKER (WITHOUT INCUBATION)

Sl. No.	Prescribed Specifications; equivalent or better
1	Small, quiet shaker with ideal swivel motion, for a maximum shaking weight of 2 kg or more.
2	Electronic adjustment of speed and timer.
3	Digital LCD display for reading speed, timer function and operating modes.
4	Type of movement- orbital or linear.
5	Speed range (rpm): 0-800.
6	Time setting range (min): 1-599.
7	Supporting literature of equipment with detailed specifications.
8	Warranty: 2 years from date of installation.

13. pH Meter

Sl. No.	Prescribed Specifications; equivalent or better
1	Benchtop meter type.
2	3-in-1 electrode (pH, mV, Temperature).
3	pH range 0 to 14; pH accuracy ± 0.01 ; pH resolution 0.01, 0.1
4	Calibration: 1 to 3 points.
5	Temperature range: 0 to 100°C.
6	mV range: -2000 to 2000; mV accuracy $\pm 0.01\%$ full scale.
7	Must include calibration buffer packs.
8	Large colour TFT display.
9	Supporting literature of equipment with detailed specifications.
10	Warranty: 2 years from date of installation.

14. MICROWAVE OVEN

Sl. No.	Prescribed Specifications; equivalent or better
1	Capacity: 20 to 30 litres.
2	In-built power regulator/stabilizer.
3	Supporting literature of equipment with detailed specifications.
4	Warranty: 2 years from date of installation.

15. -20°C ULTRA LOW TEMPERATURE FREEZER

Sl. No.	Prescribed Specifications; equivalent or better
1	Microprocessor controller with digital display.
2	Door key lock.
3	Stainless steel exterior & interior.
4	Automatic door closing.
5	Forced air cooling.
6	Adjustable shelves.
7	Lockable castors Optional.
8	Visual and acoustic alarm.
9	Adjustable high/low temperature alarm; Door open alarm.

10	Gross Capacity: 650 litres.
11	Upright cabinet model.
12	Temperature range: -20°C; Temperature display: Digital; Microprocessor controller: Yes; Lock: Yes
13	No. of Shelves/Drawers: 3 + 1 shelves (or more); Wheels: Yes
14	Supporting Literature of equipment with detailed specification.
15	Warranty: 2 years from date of installation.

16. REFRIGERATOR

Sl. No.	Prescribed Specifications; equivalent or better
1	Capacity: 400-500 litres approximately.
2	Frost-free freezer.
3	In-built power regulator/stabilizer.
4	Vertical cabinet type with double door.
5	Temperature range: -18°C to 4°C.
6	Cooling retention: 2 hours or more.
7	Supporting literature of equipment with detailed specifications.
8	Warranty: 2 years from date of installation.

17. 4°C UPRIGHT CHILLER

Sl. No.	Prescribed Specifications; equivalent or better
1	1030 litres capacity or more.
2	Temperature range: 2 to 10 °C.
3	Must contain wheels.
4	Number of shelves 4 + 4; must be adjustable.
5	Number of doors should be 2.
6	In-built power regulator/stabilizer.
7	Cooling retention: 2 hours or more.
8	Should preferably have internal power outlet for operating equipment internally.
9	Door key lock.
10	Supporting literature of equipment with detailed specifications.
11	Warranty: 2 years from date of installation.

18. AIR CONDITIONER

Sl. No.	Prescribed Specifications; equivalent or better
1	Split AC with hybrid jet inverter technology.
2	Energy rating: 5 star.
3	Capacity: 1.5 ton suitable for medium sized room.
4	Variable speed compressor which adjusts power depending on heat load for higher energy savings.
5	Must have dust filter and dehumidifier filters.
6	Remote control.
7	Voltage at 230 V.
8	Low noise emission.
9	Supporting literature of equipment with detailed specifications.
10	Warranty: 2 years from date of installation.

19. GENERAL PLASTICWARE (MICROTIPS, MICROCENTRIFUGE TUBES, CENTRIFUGE TUBES, PCR TUBES, 96 WELL PLATES, DNA MOLECULAR WEIGHT CUTTER FILTERS, ETC.) AND DISPOSABLES; GLASSWARES; AND MOLECULAR BIOLOGY CHEMICALS AND CONSUMABLES

I) GENERAL PLASTICWARE AND DISPOSABLES

Sl. No.	Name of Plasticware	Qty.
1	96 Well plate semi skirted Compatible with AB 3500 Genetic Analyzer	20
2	96 Well plate Compatible with 7500 real time PCR System	20
3	Aluminum foil 9meter	10 pkt.
4	Bottle brush large	5
5	Bottle brush medium	5
6	Centrifuge tube with cap 15 ml Sterile (conical bottom)	500
7	Centrifuge tube with cap 50 ml Sterile and Racked (conical bottom)	2x100
8	Disposable Polythene Gloves	500
9	0.2 ml Micro centrifuge tube Flat Cap Sterile DNase, RNase Free	2 x 1000
10	1.5 or 2ml Micro centrifuge tube sterile DNase, RNase Free	5 x 1000
11	Disposable Mask	500
12	Disposable Shoe Cover	300
13	Maximum Recovery Filtered Micro Tip up to 10µl XL universal racked	500
14	Maximum Recovery Filtered Micro Tip up to 10µl universal racked	2000
15	Filtered Micro Tip up to 50µl universal racked	1000
16	Filtered Micro Tip up to 200µl universal racked	2000
17	Filtered Micro Tip up to 200µl universal bulk pack	5000

18	Filtered Micro Tip 100 to 1000µl universal Bulk Pack	500
19	Nitrile Hand Gloves- Medium	500 pkt.
20	Nitrile Hand Gloves- Small	200 pkt.
21	Blotting paper to be used as absorbent surface on working table	20 ream
22	PCR tube rack with Cover 96 position for 0.2ml tube	10
23	Scissors 6" blunt	10
24	Scissors 6" sharp	10
25	Wash bottle (250ml)	5
26	Cryo Box for 1.5/2.0 ml tube 80 or more Places	5
27	Labelling Tape	10 pkt.
28	Sterile Scalpel blade No. 20, 22 with stainless steel scalpel holder	1 pkt. each
29	Aspirator Bottle capacity 5 L	4
30	Sterile Disposable Petri plate 90 mm diameter	100
31	Sterile Disposable Petri plate 150 mm diameter	500
32	Autoclavable Bag for waste Disposable 20x40 inch	20
33	Sterile Cotton Swab individually packed	200
34	Spatula stainless steel- 8 inch	10
35	Glass Marking Pen with tungsten carbide tip	20
36	Autoclave Indicator tape 1"x500'	2
37	Forceps Pointed - Stainless Steel 6" blunt	10
38	Forceps blunt - Stainless Steel 6" sharp	10
39	Biohazards waste container- 3 litres, 5 litres and 20 litres	3, 3, 2
40	0.2ml tube strip-8 with cap for real time PCR	100
41	Parafilm M 2'x250'	3
42	Cryo gloves Medium -Mid arm	2 Pairs
43	Universal Combi rack	10
44	Reversible rack with Cover 1.5/2 ml tube	20
45	Float Rack 16 Places	10
46	2ml Concentration Device for DNA Conc. 70K molecular weight cutter	96
47	0.5ml Concentration Device for DNA Conc. 70K molecular weight cutter	3x96
48	Whatmann Filter Paper No.1	20 pkt.
49	Kimwipes	5 pkt.
50	Tissue Paper stand	5
51	Tissue paper roll	30
52	pH Strips range 5-9	3

II) GLASSWARES

Sl. No.	Name of Glassware	Qty.
1	Glass measuring Cylinder- 500ml Graduated	2
2	Glass measuring Cylinder- 250ml Graduated	2
3	Glass measuring Cylinder- 100ml Graduated	6
4	Glass measuring Cylinder- 50ml Graduated	4
5	Glass measuring Cylinder- 10ml Graduated	3
6	Reagent bottle amber colour wide mouth, screwcap and pouring ring, graduated- 250ml	4
7	Reagent bottle amber colour wide mouth, screwcap and pouring ring, graduated- 100ml	4
8	Reagent bottle wide mouth, screwcap and pouring ring , graduated- 100ml	10
9	Reagent bottle wide mouth, screwcap and pouring ring , graduated- 250ml	10
10	Reagent bottle wide mouth, screwcap and pouring ring , graduated- 1000ml	2
11	Beaker-Griffin, Low form, with spout, graduated- 100ml	6
12	Beaker-Griffin, Low form, with spout, graduated- 250ml	6
13	Beaker-Griffin, Low form, with spout, graduated- 500ml	4
14	Conical flask- 250ml	3
15	Conical flask- 100ml	6
16	Funnel- 100 mm Diameter	2

III) MOLECULAR BIOLOGY CHEMICALS AND CONSUMABLES

Sl. No.	Name of Chemicals/Items	Qty.
1	(Dithiothreitol) DTT, MB Grade	2 x 2 gm
2	Phenol: Chloroform: Isoamyl Alcohol (24: 24:1) pH 8.0, MB grade	4 x 250 ml
3	TRIS, MB grade	500 gm
4	(Ethylenediamine Tetra acetic Acid) EDTA, MB Grade	5 x 100 gm
5	SYBR Safe DNA Gel Stain	2 x 100 µl
6	Glycerol, MB Grade	100 ml
7	Bromophenol Blue	5 g
8	Proteinase-K	2 x 500 mg
9	Sarkosyl, MB grade	100 gm
10	(Sodium Dodecyl Sulphate) SDS , MB Grade	1 x 500 gm
11	Hydrochloric Acid, MB grade	1 x 500 ml

12	Glacial Acetic Acid, MB Grade	2 x 500 ml
13	Sodium Chloride, MB Grade	6 x 500 gm
14	Sodium Hydroxide, MB Grade	1 x 500 gm
15	Sodium Acetate anhydrous, MB Grade	500 gm
16	Ethanol Absolute	10 x 500 ml
17	Boric Acid, MB Grade	1 x 500 gm
18	Sodium Hypochlorite (4%)	5 x 1000 ml
19	MgCl ₂ , MB Grade	1 x 500 gm
20	Sucrose, MB Grade	1 x 500 gm
21	H ₂ O ₂ , AR Grade	2 x 500 ml
22	Hand disinfectant rub (liquid)	5 x 500 ml
23	Surface Sanitizer	2 x 5 litre
24	Rapid body fluid identification kit for human blood (forensic validated kit)	20 x 10 nos.
25	Rapid body fluid identification kit for human PSA (forensic validated kit)	20 x 10 nos.
26	Liquid Detergent (for washing glasswares, etc.)	10 litre
27	pH capsules for calibration of pH meter pH-4, 7, 9.2	2 pack each

OFFICE OF THE DIRECTOR GENERAL OF POLICE
MEGHALAYA, SHILLONGShillong, the 15th February, 2021.**SHORT TENDER NOTICE**

No.MPF/13/2015-2016/Pt.I/160. - Sealed tender affixing non-refundable Court Fee Stamp of ₹ 1000/- (Rupees One Thousand) only are invited from bonafide, established, reputed manufactures and registered intending firms and supplier(s) for entering into a rate contract for supply and installation of C.C.T.V. in the Police Stations for the year 2020-21, as per terms and conditions laid down in the Tender Notice. The tenders should be in 2 (two) bids system i.e. (i) Technical Bid (ii) Price Bid.

1. Terms and conditions:

Items offered must be of reputed companies/manufactures and should meet with all the Technical Specifications as given in **Annexure "A"**. Tender should be accompanied with catalogues/Brochures/Warranty/Guarantee and will be received up to **1200 hrs.** on or before the **8th March, 2021** by hand or by post. These will be opened on the same day at **1400 hrs.** Tenderers or their authorized representatives' are invited to present at the time of opening of the tender.

2. (i) Tender must be accompanied by the following documents in Technical Bid:

- (a) Affixed non-refundable court fee stamp as mentioned above.
- (b) Attested Passport size photograph of the bidder.
- (c) Authenticated copy of authorized Dealership/Distributorship certificate for each item quoted from the Principal manufacturer who has authorized dealers specifically certifying that the tenderer is authorized to deal with the equipments quoted in the tender notice. Separate dealership certificate will be required to be furnished by the tenderer if asked for in the list of items.
- (d) Attested copy of SC/ST Certificate issued by the concerned competent authority of Meghalaya only (for Tribal tenderer).
- (e) Earnest money at the rate of 10% (Ten percent) in case of Non-Tribal and at the rate of 5% (Five percent) in case of Tribal from the total value of the items tendered, in any one of the following forms only:

- (i) Crossed bank draft; or,
- (ii) Deposit at Call.

Payable to the Asstt. Inspector General of Police (A), Meghalaya, Shillong at any Nationalized Bank at Shillong.

- (f) Attested copy of GST Registration / Clearance to be enclosed.
- (g) Financial stability Certificate from any Nationalized Bank or Deputy Commissioner concerned.
- (h) Catalogues/Brochures (in original) from the manufacturers for the item quoted.
- (i) Attested copy of valid professional Tax Clearance Certificate.
- (j) Attested copies of valid Trading license in terms of KHADC, JHADC, GHADC for Non-Tribal (regulation Act. 1954) in case of Non-Tribal who are required to obtain such license should also be enclosed.
- (k) Tenderer should also submit the undertaking at **Annexure-C**.
- (l) Latest certificates with respect to work experience for supply and installation of CCTVs.
- (m) Should not have been black listed.

2. (ii) Tender must be accompanied by the following document/detail in price Bid:

- (a) Rate of the item quoted should be placed in separate sealed envelopes.
- (b) The rate quoted should be as per format enclosed at **Annexure-A**.

3. The list of enclosed documents must be mentioned on the body of the envelope containing the tenders, failing which, the sealed envelope of quoting firm will not be opened.
4. **Warranty/Guarantee:** Minimum Warrantee of 2 (two) years should be offered, to be followed by an AMC from the third year.
5. **Rates Quoted:**
 - (a) Should be inclusive of all taxes, levies, charges, packing, insurance, taxes and other installation/incidental charges at Police Stations as per enclosed at **Annexure-B**.
 - (b) Should be inclusive of the cost of all accessories required to make CCTV functional.
 - (c) Should be valid for 1 (one) year from the date of acceptance of tender.
 - (d) Should be quoted separately for each item in word and rates should be for 1 (one) item, 1 (one) rate basis. Same items with optional rates and optional quality will not be entertained and out rightly rejected.
 - (e) Should be quoted F.O.R. Destination i.e., up to the Office of the Director General of Police, Meghalaya, Shillong.
 - (f) Should be written clearly in figures and in words. Any alterations or over writing must be fully signed by the tenderer along with the date.
 - (g) Once the rates offered in the quotation are accepted, no enhancement will be entertained under any circumstances and tenderers will be liable to supply the items at the rate accepted by the Director General of Police, Meghalaya, Shillong. Failure to supply the items at the accepted rates will entail the offer being cancelled and the Security Money will be forfeited to the Government of Meghalaya.
 - (h) For import items rate should be indicated separately i.e., rates with **Custom duty and rates without Custom Duty**.
6. Tenderer must sign all pages of the Bid (Both Technical and Price Bid) and also submit the signed Undertaking Certificate at Annexure – 'C', as a proof of the tenderer having fully understood the terms and conditions mentioned in the NIT.
7. Tender/quotation should be addressed to the undersigned by designation and not by name. Sealed envelopes containing the quotation must be super-scribed as Tender for supply and installation of CCTV and sent by hand delivery. The tenderer should affix his full address on the left bottom of the envelope containing the tender documents.
8. In no case tenders received after due date and time shall be accepted. All tenders received after the due date and time shall be returned to the respective tenderer without opening the same.
9. **Rates of Security Deposit:-** The successful tender will have to deposit Security Deposit @ 10% (for all categories) of the total amount of the contract.
10. Once the Model is approved, no change of brand name, shape, pattern, quality or specification will be entertained even on the plea on non-availability offer of the same quality or alternative offer of the same quality.
11. Delivery and installation must be completed within 20 (twenty) days from the date of receipt or firm orders. No extension of delivery period will be entertained.
12. **Payment will be made to the suppliers directly, only on completion of supplies, installation and based on the recommendation of the Line Committee.**
13. Risk of transportation will be borne by the Tenderer themselves.
14. One set of manual of (Instruction and Maintenance) should be supplied free of cost for the item wherever applicable.
15. The purchase Board reserves the right to reject the lowest rate or any of the tender without assigning any reason.

16. The Tendering Authority has the right to cancel the tender at any time without assigning any reason thereof.
17. The Tendering Authority reserves the right to alter the quantity/reduce any items/equipments before issue of supply order and the Tenderer shall not have any claim what so ever on this account.
18. The items for which the tenderers would be quoting must fulfill the given technical specifications and if it does not then it will not be accepted.
19. **Eligible/qualified Tenderers should demonstrate the equipment before the Tendering Authority.**
20. Specification of the CCTV is at Annexure - 'A'.
21. Successful Tenderer will have to sign a contract agreement.
22. The Earnest Money of the successful/unsuccessful Tenderer shall be released after the award of tender to the successful Tenderer.
23. The Successful tenderer shall be intimated and a letter of acceptance will be issued by the undersigned.

Asstt. Inspector General of Police (A)
Meghalaya, Shillong.

TENDER NOTICE

Sealed tenders along with Brouchers/Catalogues for supply of CCTV to the O/o the Director General of Police, Meghalaya, Shillong will be received by the undersigned up to **1200 hrs.** on the **8th March, 2021** will be opened on the same day at **1400 hrs.** by the undersigned. Details may be collected from the office of the undersigned on any working days between 10Am to 4.30 P. M.

Asstt. Inspector General of Police (A)
Meghalaya, Shillong.

ANNEXURE - A

TECHNICAL SPECIFICATIONS (TS)

- 1.0 Introduction:** This section deals about the technical specification of various hardware, software and services included in the scope of work of this Bidding Document. The technical specifications mentioned are minimum requirement and the bidders can propose higher or better specifications meeting the functionality. In case a single tool does not meet all the specifications above, the Bidder may enlist more than one tool that meets the above requirements in totality.
- 2.0 General Requirements:** The Bidder shall provide IP based SIP enabled CCTV System which shall include but not limited to all material, equipment, devices, software including all applicable licenses and services, accessories, auxiliaries and associated equipment ensuring operability, maintainability, and reliability of the system. Each component offered by the Bidder shall be of established reliability. Bidder shall ensure that the equipment / components of same type and rating are interchangeable. This work shall be consistent with modern Security System practices and shall follow all applicable codes, standards, guides, statutory regulations and safety requirements in force.
- 2.1** CCTV OEM shall certify that the offered Hardware & Software shall be free of any known security vulnerability (excluding Zero Day vulnerabilities). The intent is that CCTV OEM shall certify that the Video Management Software & Firmware (excluding third party software e.g., Video Analytics) does not contain any malicious code or otherwise is not operating contrary to its stated purpose.
- 2.2** Any component / hardware / parts / assembly / software including firmware used in the offered solution (hardware / software) must not support any protocol which enables unauthorized access or unauthorized remote control.
- 2.3** CCTV OEM shall also be required to certify that no backdoor has been engineered in Video Management software and firmware. Such certificate shall be furnished for all hardware (including firmware) / software manufactured and supplied for the project by the OEM. Further, CCTV OEM shall certify that MAC ID (identity) of camera is registered with OEM and has not been altered.
- 2.4** Major Components of CCTV system shall Set of Cameras with Housing, Pan, Tilt and zoom Control as required, IR Illuminators, Network Switches, HDD, Outdoor Cabinets, Camera/Database Server, Pole for cameras/Mast, Junction box, UPS, Monitors, keyboard, joysticks etc., Wireless Equipment, Networking and power cables and other related infrastructure, Video Management Software (Including Face recognition) & Video analytics software etc.
- 2.5** The Bidder shall be responsible for selection, design, engineering, installation of all the equipment supplied as covered in this specification and commissioning of the system meeting the intent & functional requirements of the specification. To make the system complete and operational, the Contractor's scope includes all associated equipment/devices viz. cables, cable trays, power packs, erection hardware (viz. junction boxes, brackets, glands, nut-bolts, conduits, fixtures, fittings etc.). The camera and database servers shall offer both video stream management, video stream storage management. These servers shall also manage and store configuration information/database for the whole system. Recording frame rate & resolution in respect of individual camera shall be programmable. It shall be possible to view and record at different resolutions and frame rates and this shall be individually programmable on every camera. The system shall ensure that all configuration information, video recordings, and user database etc., is automatically replicated on the standby camera/database server(s) so that in the event of failure of one server, the performance of the system is not affected. It shall be possible to take back-up of system configuration and database on portable media device and restoring the same if required.
- 2.6** The CCTV System should have following features/functions:
- a) Plug & Play installation and detection of Cameras and devices.
 - b) It should be flexible, user friendly and easy to use.
 - c) Digital Zoom in Live or Playback Video should be available.
 - d) It should have in-built image enhancement feature.

- e) Facilitate Users with proper authority to perform administrative functions, such as configuring devices, setting up users, adjusting network settings and creating recording schedules. Access to these functions and all other system services shall be configurable.
- f) Multiple displays views for Live or Play back Cameras or Devices.
- g) On Screen PTZ and Device property control.
- h) Shall provide the ability to change frame rate parameter on a per camera basis for both live and recorded videos.
- i) The software shall provide the full functionality reporting tool which can provide reports for user logon/logoff, camera accessibility report, server health check report etc.
- j) System shall ensure that once recorded, video cannot be altered.

2.7 CCTV System shall be provided with minimum usable storage space to store recordings of all HD cameras at 25/30 FPS frame rates in FPS on motion-based recording at 1920X1080 for a period of not less than 365 days but up to 555 days using necessary compression techniques. Such Storage space can be inbuilt HDD to Server, NAS (Network Attached Storage), SAN (Storage Area Network). Recording has to be done in dual /parallel recording mode, Frame rate & resolution shall be user selectable. The camera feeds of the CCTV system shall have the capability to be viewed, operated, and configured based on the defined user rights through workstations and the video wall.

2.8 Power Supply Arrangement: The CCTV System along with all its components i.e., network switches, storage devices, Servers, LAN switches, media converters, cameras etc. may be powered from UPS system 230 V AC, Single Phase, 50 Hz. Bidder shall extend power from the available line in Police Station campus to UPS. Laying of power cable for extension of UPS power supply wherever is required, shall be in the scope of Bidder. For cameras mounted in field/perimeter, powering has to be done through mini-UPS of suitable rating kept in junction boxes being supplied by Bidder under scope of this contract. All cameras & network switches must support POE/POE+ powering. The Bidder shall provide UPS on as required basis.

2.9 In the event of conflict between requirements of any two clauses of specification documents, the more stringent requirements shall apply unless otherwise confirmed by the Employer in writing before the award of this contract, based on a written request from the Contractor for such clarification.

3.0 Minimum Technical Specifications: All the cameras shall be rugged, high performance color cameras suitable for day and night surveillance, network compatible, with Full HD resolutions and audio recording facility. PTZ cameras shall be high speed integrated dome type. All cameras must comply RoHS. Other specifications shall be as follows.

3.1 Dome Type Camera: The camera shall provide direct network connection and bandwidth throttling to efficiently manage bandwidth and storage requirements while delivering outstanding image quality. The camera shall have a mechanical IR cut-off filter for true day/night switching and built in microphone. The camera shall accept power via Power over Ethernet (IEEE 802.3af compliant) or better.

Sensor type	1/2.8-1/3" Progressive scan CMOS or better
Total sensor pixels	Minimum 4MP
Colour	0.005 lx
Wide Dynamic range	Up to 120 DB
Video Compression	MJPEG/H.264/H.264+/H.265/H.265+
Audio Compression	G.711/AAC/G.722/G.726
Streaming	Configurable streams, configurable frame rate and bandwidth, Parallel streaming
1080p HD	1920 X 1080

Frame Rate	25fps or better (Standard 30 fps is also acceptable)
Adjustable picture settings	Contrast, Saturation, Brightness
White Balance	Required
Day/Night	Auto (adjustable), Colour, Monochrome
IR intensity	Adjustable
Sharpness	Required
Backlight compensation	On/off
Contrast enhancement	On/off
Noise reduction	Dynamic Noise Reduction
Motion Detection	Required
Memory card slot	supports up to 128 GB over SD card or more
Recording	Continuous recording or ring recording. Alarm/events/schedule recording.
Distance	Minimum 15 m or more
LED	850 nm array
Lens type	2.8 mm @F2.0 or better
Alarm input	1no.
Alarm output	1 no.
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP.
Ethernet	10/100 Base-T, auto-sensing, half/full duplex
Interoperability	ONVIF Profile S & Profile G or latest ONVIF profile
Operating temperature	0 deg C to +50 deg C
Humidity	20% to 90% relative humidity (non- condensing)
Certification	UL, CE, FCC, RoHS
External and Weatherproof	Vandal resistance and IP 66 or IP67
Field of view	H111°/D141°/V82°
IR Distance	Up to 30m
Input voltage	Power-over-Ethernet (48 VDC nominal) or 24 VAC / +12 VDC or as per manufacturer Standard, to be provided by Bidder.

3.2 Bullet IP Camera : The camera shall provide direct network connection and bandwidth throttling to efficiently manage bandwidth and storage requirements while delivering outstanding image quality. The camera shall have a mechanical IR cut-off filter for true day/night switching and built in microphone. The camera shall accept power via Power over Ethernet (IEEE 802.3af compliant) or better.

Sensor type	1/2.8-1/3" Progressive scan CMOS or better
Total sensor pixels	Minimum 4MP
Colour	0.005 lx
Wide Dynamic range	Up to 120 DB
Video Compression	MJPEG/H.264/H.264+/H.265/H.265+

Audio Compression	G.711/AAC/G.722/G.726
Streaming	Configurable streams, configurable frame rate and bandwidth, Parallel streaming
1080p HD	1920 X 1080
Frame Rate	25fps or better (Standard 30 fps is also acceptable)
Adjustable picture settings	Contrast, Saturation, Brightness
White Balance	Required
Day/Night	Auto (adjustable), Colour, Monochrome
IR intensity	Adjustable
Sharpness	Required
Backlight compensation	On/off
Contrast enhancement	On/off
Noise reduction	Dynamic Noise Reduction
Motion Detection	Required
Memory card slot	supports up to 128 GB over SD card or more
Recording	Continuous recording or ring recording. Alarm/events/schedule recording.
Distance	Minimum 15 m or more
LED	850 nm array
Lens type	Motorised 3 mm-10mm @F1.4 or better
Alarm input	1no.
Alarm output	1 no.
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP.
Ethernet	10/100 Base-T, auto-sensing, half/full duplex
Interoperability	ONVIF Profile S & Profile G or latest ONVIF profile
Operating temperature	0 deg C to +50 deg C
Humidity	20% to 90% relative humidity (non- condensing)
Certification	UL, CE, FCC, RoHS
External and Weatherproof	Vandal resistance and IP 66 or IP67
Field of view	H90°-H31°/ D114°-D38°/V67°-V23°
IR Distance	Up to 60m
Input voltage	Power-over-Ethernet (48 VDC nominal) or 24 VAC / +12 VDC or as per manufacturer Standard, to be provided by Bidder.

3.3 High Definition PTZ Cameras:

Image Device	1/2.8-1/3" Progressive scan CMOS
Lens	Motorised 5.3-64 mm focal length minimum
Optical Zoom	12x or better
Digital Zoom	16x or better
Number of Pixels/Effective resolution	1920X1080
Video compression	MJPEG/H.264/H.264+/H.265/H.265+
Audio Compression	G.711/AAC/G.722/G.726
Focus	Auto with Manual Override
Iris Range	F1.6-F2.9
Iris Control	Auto with Manual Override
Back Light Compensation	Required
White Balance	Automatic with mode selection options
Electronic Shutter	1/50 to 1/10000 Auto
S/N Ratio	>50dB
Audio	Full Duplex or 2-way
Automatic Gain Compensation	Up to 18 dB
Power Supply	As per manufacturer's standard to be arranged by contractor
Gain Control	Auto/Off
Day/Night selection	Auto On-Off
IR cut-filter	Yes
Protocols	IPV4/IPV6,RTP, UDP, TCP, IP, HTTP, HTTPS, FTP,DHCP, IGMP V2/V3, ICMP, ARP, SMTP, Sntp, SNMP or equivalent.
Security	Password protection
Auto Resume after Power Failure	Yes
Analytics	Motion detection & Tamper alarm
PoE supply IEEE 802.3af compliant or better	Yes. Bidder may also offer 802.3bt standard POE cameras to match PTZ camera & IR illuminator power requirements as well as for Heater & blower powering. If Power requirements is even more, bidder to supply & commission external power supply to power such cameras on as required basis, and this requirement is not covered in BOQ of this specification.
Pan	360 Deg Continuous
Tilt Range	-45 deg to 30 deg
Manual Tilt Speed	0.1 deg/sec to 30deg/sec
Manual Pan Speed	0.1 deg/sec to 60deg/sec
Preset Positions	Minimum 255
Preset Pan Speed	280 deg/sec min
IR Illuminator	built-in active infrared illuminator or separate hardware.
IR Distance	Up to 140 m

- 3.4 Camera Housing & Mount:** All the outdoor cameras and accessories are to be housed in weatherproof IP-65 environmental housing made of aluminium and sun shroud. The housing, with heater and blower installed, shall provide protection for camera/lens assemblies in the ambient temperature range of - 0 deg. C to 50 deg. C. The camera mount should be of the same make as that of camera and suitable for the model no. offered as specified by the manufacturer and should be an integrated unit.
- 3.5 Keyboard & Joystick:** Keyboard shall have full function used for system control and programming for selection of various Network switches, camera/database servers, camera functions including pan, tilt and zoom lens controls and shall be ergonomically designed. Joystick shall be provided for achieving all control functions.
- 3.6 Video Management Software:** The Video Management Software (VMS) should be a handy and reliable application which should be designed to work with IP cameras in order to provide video surveillance, recording settings and event management functions. It should not require any additional equipment to function. The interface should be very easy to use, intuitive, with easy access to the most common activities, such as viewing live video, searching through recordings and exporting videos and snapshots. It should be capable to integrate with other devices through ONVIF and should be capable to connect up to 64 cameras.

It should be capable of the following:

- Should support ONVIF.
 - Should support PTZ operation.
 - Should support P2P connection way without ports forwarding.
 - Should support pre-record for motion detection.
 - Should support custom time length for schedule record.
 - Should support live view, playback and E-Map functions.
 - Should support motion detection, alarm recording and image capture function.
 - Should support H.265/H.264/MJPEG/MPEG-4 video compression.
 - Should support real-time video/event alarm display.
 - Should support 1/2/4/6/8/9/13/16/20/24/30/36/49/64 Channel Camera Surveillance.
 - Should be capable to adjust the original screen size to screen ratio of 16:9 and 4:3.
 - Should have patrol mode for single or multiple views.
- 3.7 PC Workstation:** It should be capable of handling CCTV Application Software for Video Monitoring, Recording & Management and other software/hardware required for providing all functionality as per the bidding documents without causing any delay whatsoever.
- 3.8 LED Display:** It should be minimum 55" LED 4K SmartScreen capable of handling CCTV Application Software for Video Monitoring, Recording & Management and other software/hardware required for providing all functionality as per the bidding documents without causing any delay whatsoever.
- 3.9 GI Pole with concrete support for Camera:**

Height above ground level	7 M, 10 M (height at which wind velocity is measured)
Sizes	Bottom 150 mm x Top 80 mm x 7000 mm Bottom 200 mm x Top 100 mm x 10000mm
Metal Protection Treatment of Pole Sections	Hot Dip Galvanized as per BSEN ISO 1461
Thickness of Galvanization (mm)	Average 70 Microns as per IS 2629
Type of Door construction and locking arrangement	Close fitting door with suitable reinforcement to avoid buckling

Material of construction of shaft	As per BSEN 10025/For Shaft, IS 2062 For Base Plate
Max. design with speed	50m/sec as per IS 875 (Part-III)
Gust Speed time considered	3 Sec
Gl pole with concrete support for camera	7, 10 mtrs.
Factor of safety for wind load	1.25
Factor of safety for other loads	1.15
Applicable Standard for pole design	BSEN-40-3-3
Considered wind speed (km/hr)	50mm/sec as per IS875 (Part-III)
Depth of Foundation (mm)	1500 mm
Average Soil Bearing Capacity	10 T/Sqm.
Camera Fitting	Aluminum Deep Drawn or Die cast IP 65
Brackets	Single Arm – 1500 mm Lg.
Ladder for maintenance	Safety ladder to be provided along with the poles for camera maintenance (mounted at the top of the Pole).

3.10 Network video recorder: The Network video recorder should be 4K ready and must comply to the following specifications.

Network Video Input	32-ch
Bandwidth	256Mbps or better
HDMI Output	2-ch Resolution: 1920x1080/60Hz & 50 Hz or better with Audio Output support
VGA Output	2-Ch Resolution 1920x1080/60Hz & 50 Hz or better
Dual Stream	supported
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/ UXGA/ 720P/ D1/ VGA/CIF/QCIF
Synchronous Preview/Play	4*(30fps @4MP) or better
Video Compression	H.265+/H.265(HEVC)/H.264+/H.264
Audio Compression	G.711 /ACC/G 722/G.722
Sample Rate	8KHz/16KHz
Synchronous Recording	32*4MP or better
Driver	8*SATA HDD (3.5")
External Storage	eSATA
Capacity Up to	10 TB Capacity for Each HDD
Array Type	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Recording Type	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)
Snapshot	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)
Playback	General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback

Backup	Video Backup, Image Backup
Protocol	IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP, NFS
Network Interface	Min 2 nos. 10/100/1000Mbps RJ-45 ports
Serial Interface	1*RS-232 Series Port for Console 1*RS-485 Series Port for Keyboard
USB Interface	1*USB 3.0; 2*USB 2.0
Audio Input/Output	1*RCA/2*RCA
Alarm Input/Output	16-ch/4-ch
Power Supply	AC 100V~240V 50Hz~60Hz
Power Consumption	≤35W(Without HDD)
Working Conditions	Temperature: -10°C ~+55°C
Humidity	10%~90%
Mounting	Rack mounted chassis

- 3.11 Surveillance Hard Disk Drive:** The Hard Disk should be a surveillance-optimized drive designed for NVRs to deliver zero dropped frames while supporting heavier workloads. Should have high reliability with 2M hours MTBF and a 550 TB/year workload rate for more than 3 times that of standard surveillance hard drives. Should have built-in rotational vibration sensors providing reliable storage for NAS with little lag or downtime. It should comply to the following specifications.

Capacity	10 TB
Interface	SATA 6 Gb/s
Recording Technology	CMR
Drive Design	Helium
RV Sensors	Yes
Max. Sustained Transfer Rate	250MB/s
Cache	256 MB
Tarnish Resistant	Yes
Load/Unload Cycles	3,00,000
Non-recoverable Read Errors Rate	Max 1 per 10E15
Power-On Hours per year	8,760
Workload Rate Limit (WRL) ⁴	550
Mean Time Between Failures (MTBF) (hours)	2,000,000 hr.
Operating (ambient, min °C)	5
Operating (drive case, max °C)	70
Non-operating (ambient, min °C)	-40
Minimum Storage capacity required	80 Tb

3.12 PoE Switch: The network switch should have the following specifications:

Port VLAN (Port isolation)	Yes
Smart PoE Watchdog function	Yes
Interface	10 10/100Mbps RJ45 Ports
Network Media	10/100BASE-TX: UTP category 5 or better (maximum 250m)
Fan Quantity	Fanless
Power Consumption	120W or lesser
Internal Power Supply	AC 110-240V 50/60Hz
PoE Ports (RJ45)	Standard: 802.3 af/at/bt compliant PoE Ports: Port1- Port8
Backplane Bandwidth	2Gbps
Mac Address Table	4K
Packet Forwarding Rate	1.5Mpps
Buffer	768Kb
Jumbo Frame	10240Bytes
Protection Level	Lightning protection 6KV ESD Contact discharge
Mounting	Wall-Mount installation

3.13 6U/9U/12U/15U/22U waterproof Network Rack with Glass Door & Lock/Key Facility: On as required basis.**3.14 CAT6 Cable/Power Cable/HDMI Cable/Any other cable:** On as required basis along with connectors and other accessories required for ensuring full functionality. Cabling work shall be done with PVC pipes as far as possible. Outdoor cabling shall be done by digging trench and refilling. Cost should be included accordingly in the commercial bid.**3.15 ONLINE UPS:** UPS system shall be provided for NVR etc. with following minimum specifications. Bidder shall ensure that each and every active component of CCTV System has redundancy as far as power supply is concerned.**Configuration-** 2KVA On-Line UPS System with Inbuilt Isolation Transformer at output.**Technology** - True On-Line Double Conversion UPS with PWM-IGBT technology.**Capacity** - 2KVA**AC Input Voltage Range** - 230V -20% + 15% AC 1 Phase**Input Frequency** - 50Hz \pm 10% (Suitable for Generators)**AC Output Voltage-** 230 V AC, 1-phase \pm 1% (Sine Wave Output)**Output Frequency** - 50 Hz \pm 0.05 Hz**Inverter Efficiency** - Better than 90%**Overload Capacity-** 110% for 10 minutes, 200% for 5 cycles**Crest Factor-** Better than 4:1**Harmonic Distortion-** Less than 3%**DC Voltage** - 72V DC**Isolation Transformer** - UPS output should be fully isolated by double conversion and

inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.

Ambient Conditions - Operating Temp: 0–50 Deg C, Relative Humidity: 95% Max. non-condensing

Digital Metering Digital LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.

Battery Back-up & Other Details The system must be capable of providing requisite battery back-up time of 120 minutes with minimum 4680VAH by using 6nos.X 65AH/12V Sealed Maintenance Free Batteries.

Certification - ISO 9001, ISO 14001, ISO 50001, ISO 27001, OHSAS 18001, & CE certified.

RoHS Compliance

Test Certificate from NTH/ETDC/ERTL/SAMEER for quoted model.

- 3.16 UPS:** If the network component is far from online UPS, separate local UPS shall be provided as per power requirements of the components. Bidder shall ensure that each and every active component of CCTV System has redundancy as far as power supply is concerned.

CAPACITY - 1KVA

INPUT - Voltage Range 140V to 280V, Frequency Range 45Hz ~ 55Hz, Nominal Input Voltage 220/230/240 V AC, Input Connections Indian 3 Pin 5/6A

OUTPUT - Output voltage 220V AC +/- 9% (mains mode) and 220V +/-5%(battery mode), Output Frequency Same as input (Mains mode) & 50 Hz +/-10% (Battery mode), Waveform Stepped approximation to a Sine-wave

User Interface - Display Multifunction LED

BATTERY DETAILS - Battery Type Sealed Maintenance Free Type, Battery Configuration Inbuilt 2 nos. x 12V x 7AH, Recharge Time 6-8 hours recover to 90% capacity after discharge

Backup Time - 30 Minutes to one computer load.

PROTECTION & ALARM - Low Battery, Overload, Short-circuit.

ENVIRONMENT - Operating Humidity & Temp 30% to 95% RH @ 0- 45°C, Storage temperature -15 to 45 deg. Centigrade, Noise Level <40dBA @ 1 Meter, ROHS

STANDARDS (Certificates to be furnished) – QUALITY ISO 9001, ISO 14001, ISO 50001 , ISO 27001 , OHSAS 18001 , CE and BIS EMI IEC 62040-2, SAFETY IEC 62040-1-1

- 3.17 Wireless connection Equipment:** Access points for the cameras, if required shall be mounted on lighting mast. Wireless equipment and type of wireless connectivity shall be decided during installation, if required. Wireless communication for the above should be subscribing the latest Cyber security standards including encryption. The wireless modem should support dynamic encryption techniques.

ANNEXURE - B**LIST OF POLICE STATIONS IN MEGHALAYA**

DISTRICT	SL. NO.	POLICE STATION
East Khasi Hills District, Shillong	1	Shillong Sadar
	2	Laitumkhrah
	3	Lumdiengjri
	4	Laban
	5	Mawlai
	6	Rynjah
	7	Madanrting
	8	Mawsynram
	9	Pynursla
	10	Sohra
	11	Mawryngkneng
	12	Shella
	13	Mawngap
	14	Diengpasoh
	15	Women PS
West Khasi Hills District, Nongstoin	1	Nongstoin
	2	Mairang
	3	Shallang
	4	Mawshynrut
	5	Women PS
South West Khasi Hills District, Mawkyrwat	1	Mawkyrwat
	2	Ranikor
	3	Nonghyllam
	4	Women PS
South West Garo Hills District Ampati	1	Ampati
	2	Mahendraganj
	3	Salmanpara
	4	Damalgre
	5	Women PS
West Garo Hills District, Tura	1	Tura
	2	Dalu
	3	Tikrikilla
	4	Phulbari

	5	Dadenggre
	6	Jengjal
	7	Hallidyaganj
	8	Damal Asim
	9	Women PS
North Garo Hills District, Resubelpara	1	Mendipathar
	2	Bajengdoba
	3	Resubelpara
	4	Kharkutta
	5	Women PS
East Garo Hills District, Williamnagar	1	Williamnagar
	2	Rongjeng
	3	Songsak
	4	Chiading
	5	Women PS
East Jaintia Hills District, Khliehriat	1	Khliehriat
	2	Saipung
	3	Lumshnong
	4	Women PS
West Jaintia Hills District, Jowai	1	Jowai
	2	Dawki
	3	Amlarem
	4	Nartiang
	5	Women PS
Ri - Bhoi District, Nongpoh	1	Nongpoh
	2	Umiam
	3	Khanapara
	4	Umsohlait
	5	Women PS
South Garo Hills District, Baghmara	1	Baghmara
	2	Chokpot
	3	Rongara
	4	Nangalbibra
	5	Sangkhinigre

	6	Silkigre
	7	Gasuapara
	8	Siju
	9	Women PS
Police Headquarters, Shillong	1	CID
	2	CCW
	3	EOW
	4	Crime Branch
Total		75

ANNEXURE-C

CERTIFICATE OF ACCEPTANCE OF TERMS AND CONDITIONS
(To be furnished along with the tender documents)

I/We have *read* and fully understood the terms and conditions as laid down in the Short Tender Notice. *vide* **Memo No.MPF/13/2015-2016/Pt.I/160, dated 15th February, 2021** in respect of supply of CCTV to the Office of the Director General of Police, Meghalaya, Shillong due to be opened on **8th March, 2021**.

I/We agree to abide by the same.

I/ We have signed all the pages of the tender documents as laid down.

Signature and seal of the Tenderer or
his/her Authorized signatory.

Dated.....

Name

Address

Phone No.

Shillong, the 10th February, 2021.

ADVERTISEMENT

No.DCIC(EKH)/Genl/Trg/905/2019/168. - La khot application na ki nong shong shnong jong ka East Khasi Hills District kiba thmu ban apply ia ki Training bapher jong ka District Commerce & Industries Centre, East Khasi Hills, Shillong kumba la kdew harum:

Sl. No.	Trade	Date of Interview	Time
1	Tailoring Machine Knitting Carpentry, Furniture	17 th March, 2021	11:00 A.M.
2	Embroidery, Leather Footwear	18 th March, 2021	11:00 A.M.
3	Steel Fabrication, Automobile	19 th March, 2021	11:00 A.M.
4	Training Inside/Outside	22 nd March, 2021	11:00 A.M.
5	Mastercraftman	23 rd March, 2021	11:00 A.M.
Ki Jingdonkam:- i) Ki dei ban long kiba la pass Class VIII. ii) Ki dei ban long 18 snem shaneng.			

- 1) Ia ki jingtip ba kham bniah lem bad ki application form lah ban ioh na ka Office jong U General Manager, District Commerce & Industries Centre, Shillong.
- 2) Ia ki application yn pdiang ha lane shuwa ka 3:00 P. M. jong ka 10th March, 2021.
- 3) Ia ki interview jong ki Training yn pynlong ha ka Office jong U General Manager, District Commerce & Industries Centre, Shillong ha ki tarik bad por ba la kdew haneng.
- 4) Ia ki original certificate dei ban wan rah kum ki jingpynshisha ha ka sngi interview. Yn ym don TA/DA ia kiba wan interview.

S. MAJAW,
General Manager,
District Commerce & Industries Centre,
East Khasi Hills, Shillong.

OFFICE OF THE STATE SPORTS COUNCIL
MEGHALAYA, SHILLONG

Shillong, the 18th February, 2021.

No.SSCM/CE/23/2019-20/251. - Sealed Tender affixing non-refundable Court Fee Stamp as indicated below to be drawn in PWD F-2 Form are hereby invited from the Registered/Bonafide Class-I contractors for the works mentioned below and will be received in the Office of the undersigned up to 3:00 P.M. on the 10th March, 2021 and will be opened on the same date immediately thereafter in the presence of the contractors or their representatives who would like to be present.

SL. NO.	NAME OF THE WORKS	TENDER VALUE	TIME ALLOWED FOR COMPLETION	COURT FEE STAMP TO BE AFFIXED	COST OF TENDER PAPERS (NON-REFUNDABLE)
1	2	3	4	5	6
1.	Construction of Football Ground at Madur Village, West Jaintia Hills District	₹ 10,00,000/-	12 (twelve) months from the date of issue of Final Work Order	₹ 300.00	₹ 500.00
2.	Construction of Football Ground at lalong Village, West Jaintia Hills District	₹ 9,96,000/-	12 (twelve) months from the date of issue of Final Work Order	₹ 300.00	₹ 500.00
3.	Construction of Football Ground at Lad Mukhla, Nongrim Village, West Jaintia Hills District	₹ 18,83,000/-	12 (twelve) months from the date of issue of Final Work Order	₹ 400.00	₹ 500.00

Detailed particulars can be obtained from the office of the undersigned from 2nd - 9th March, 2021 on any working days during office hours on payment as indicated above. Tenderers are to submit tenders in prescribed forms separately against each work.

Chief Engineer,
State Sports Council Meghalaya,
Shillong.

Shillong, the 2nd February, 2021.

**Empanelment of Consulting Firm / Organization / Consortium
As State Quality Monitoring (SQM) for PMGSY Works**

No.PW/EO-SRRDA/PMGSY/88/2020/21. - Public Works Department (PWD), Government of Meghalaya desire to outsource Third Party monitoring of Pradhan Mantri Gram Sadak Yojana (PMGSY) roads works. As such SRRDA, PWD invites Expression of Interest (EOI) from Consulting Firm / Organization / Consortium which have required expertise and experience in the third party monitoring of PMGSY roads.

The detailed EOI Notice is available from the office website <http://megpwd.gov.in>

The EOI shall be submitted in a sealed envelope through Speed Post, Registered Post or delivered by hand super-scribing thereon 'FOR INDEPENDENT THIRD PARTY QUALITY MONITORING OF PMGSY ROADS IN MEGHALAYA' on top of the envelope, to the stated address.

The EOI will be received upto 14:00 hours on the 5th March, 2021 and will be opened on the same date and time. Reason of postal delay will not be entertained.

G. K. MARAK,
Chief Engineer (Standard) PWD (Roads)
Cum Empowered Officer, SRRDA, PMGSY,
Meghalaya, Shillong.

Umsning, the 24th February, 2021.

No.EE/PHE/UMS/TB-36/2020-21/771-732. - Sealed Tender Notice duly affixed with a non-refundable Court Fee Stamp as shown below; eventually to be drawn in P.W.D. F-2 form are hereby invited from Class-I Registered Contractors of Meghalaya P.H.E.

Date of selling of Tender paper from: the 25th February, 2021.

Date of Closing & Opening of Tender Paper:- Tenders shall be received upto 16:00 hrs. on the 8th March, 2021 and shall be opened at 16:10 Hrs. on the same day in the presence of the Tenderers or their authorized representatives who like to be present.

Detailed Tender Paper, Specifications, etc. can be obtained from the Office of the Undersigned during Office hours on all Working days.

DETAILS OF WORKS

Sl. No.	Name of works	Tender Value (₹)	Alloted Time for Completion of the Work	CFS Applicable (₹)	Cost of Tender Paper (₹)	Remarks
1	Augmentation of Nongtrawsoh WSS Group-I	8,80,486.00	45 days	1000.00	1000.00	
2	Augmentation of Nongtrawsoh WSS Group-II	7,80,486.00	45 days	1000.00	1000.00	
3	Augmentation of Umnongkrem WSS	10,60,657.00	45 days	1000.00	1000.00	
4	Augmentation of Mawpun WSS Group-I	9,61,660.00	45 days	1000.00	1000.00	
5	Augmentation of Mawpun WSS Group-II	11,57,290.00	45 days	1000.00	1000.00	
6	Augmentation of Mawpun WSS Group-III	8,89,100.00	45 days	1000.00	1000.00	
7	Augmentation of Mawpun WSS Group-IV	10,24,200.00	45 days	1000.00	1000.00	
8	Augmentation of Mawpun WSS Group-V	7,53,300.00	45 days	1000.00	1000.00	
9	Augmentation for FHTCs of Umeit WSS Group-I	6,67,100.00	45 days	1000.00	1000.00	
10	Augmentation for FHTCs of Umeit WSS Group-II	12,08,000.00	45 days	1000.00	1000.00	
11	Augmentation for FHTCs of Umeit WSS Group-III	8,14,700.00	45 days	1000.00	1000.00	
12	Augmentation for FHTCs of Umeit WSS Group-IV	9,63,350.00	45 days	1000.00	1000.00	
13	Augmentation for FHTCs of Umeit WSS Group-V	7,20,000.00	45 days	1000.00	1000.00	
14	Augmentation for FHTCs of Umeit WSS Group-VIII	12,48,960.00	45 days	1000.00	1000.00	
15	Augmentation for FHTCs of Umeit WSS Group-IX	12,48,960.00	45 days	1000.00	1000.00	
16	Augmentation of Sonidan WSS Group-I	12,21,455.00	45 days	1000.00	1000.00	
17	Augmentation of Sonidan WSS Group-II	12,57,278.00	45 days	1000.00	1000.00	
18	Augmentation of Sonidan WSS Group-III	12,61,251.00	45 days	1000.00	1000.00	
19	Augmentation of Sonidan WSS Group-IV	12,61,251.00	45 days	1000.00	1000.00	
20	Augmentation of Sonidan WSS Group-V	12,00,000.00	45 days	1000.00	1000.00	
21	Augmentation of Sonidan WSS Group-VI	12,55,640.00	45 days	1000.00	1000.00	

22	Augmentation of Sonidan WSS Group-VII	12,66,212.00	45 days	1000.00	1000.00	
23	Augmentation of Sonidan WSS Group-VIII	14,36,244.00	45 days	1000.00	1000.00	
24	Augmentation of Umshiaiw WSS Group-I	12,67,446.00	45 days	1000.00	1000.00	
25	Augmentation of Umshiaiw WSS Group-II	14,85,990.00	45 days	1000.00	1000.00	
26	Augmentation of Umshiaiw WSS Group-III	10,18,484.00	45 days	1000.00	1000.00	
27	Augmentation of Umshiaiw WSS Group-IV	14,44,881.00	45 days	1000.00	1000.00	
28	Augmentation of Umshiaiw WSS Group-V	6,57,546.00	45 days	1000.00	1000.00	
29	Augmentation of Umsawriang WSS Group-I	8,79,240.00	45 days	1000.00	1000.00	
30	Augmentation of Umsawriang WSS Group-II	13,60,740.00	45 days	1000.00	1000.00	
31	Augmentation of Umsawriang WSS Group-III	13,36,441.00	45 days	1000.00	1000.00	
32	Nongrim Umpohwin Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-I (B)	10,78,586.00	45 days	1000.00	1000.00	
33	Nongrim Umpohwin Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (A)	13,44,845.00	45 days	1000.00	1000.00	
34	Nongrim Umpohwin Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (B)	13,44,845.00	45 days	1000.00	1000.00	
35	Nongrim Umpohwin Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (C)	13,44,845.00	45 days	1000.00	1000.00	
36	Nongrim Umpohwin Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (D)	13,44,845.00	45 days	1000.00	1000.00	
37	Umpohwin Nongnup Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-I	10,06,186.00	45 days	1000.00	1000.00	
38	Umpohwin Nongnup Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (A)	13,41,857.00	45 days	1000.00	1000.00	

39	Umpohwin Nongnup Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (B)	13,41,857.00	45 days	1000.00	1000.00	
40	Umpohwin Nongnup Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (C)	13,41,857.00	45 days	1000.00	1000.00	
41	Umpohwin Nongnup Water Supply Scheme to FHTCs under Jal Jeevan Mission Group-II (D)	13,41,857.00	45 days	1000.00	1000.00	
42	Augmentation of Bhoirymbong WSS (Lumdaitkhla) Group-VI	10,91,800.00	45 days	1000.00	1000.00	
43	Augmentation of Bhoirymbong WSS (Lumdaitkhla) Group-VII	9,38,500.00	45 days	1000.00	1000.00	
44	Augmentation of Bhoirymbong WSS (Lumdaitkhla) Group-VIII	22,86,700.00	45 days	1000.00	1000.00	
45	Augmentation of Bhoirymbong WSS (Lumdaitkhla) Group-IX	14,99,819.00	45 days	1000.00	1000.00	
46	Augmentation of Bhoirymbong WSS (Lumdaitkhla) Group-X	14,99,819.00	45 days	1000.00	1000.00	
47	Augmentation of Jukiang WSS	12,86,405.00	45 days	1000.00	1000.00	
48	Augmentation of Rilong WSS Gr-I	8,52,280.00	45 days	1000.00	1000.00	
49	Augmentation of Rilong WSS Gr-II	8,30,525.00	45 days	1000.00	1000.00	
50	Augmentation of Rilong WSS Gr-III	9,91,960.00	45 days	1000.00	1000.00	
51	Augmentation of Rilong WSS Gr-IV	8,96,060.00	45 days	1000.00	1000.00	
52	Augmentation of Rilong WSS Gr-V	9,84,310.00	45 days	1000.00	1000.00	
53	Augmentation of Mairungpdeng WSS Gr-I	95,500.00	45 days	1000.00	1000.00	
54	Augmentation of Mairungpdeng WSS Gr-II	10,31,630.00	45 days	1000.00	1000.00	
55	Augmentation to give FHTCs of Umtngam WSS Gr-I (A-B)	14,75,511.00	45 days	1000.00	1000.00	
56	Augmentation to give FHTCs of Umtngam WSS Gr-I (C)	12,69,725.00	45 days	1000.00	1000.00	

57	Kseh Kynjoin Water Supply Scheme Gr-I	10,33,790.00	45 days	1000.00	1000.00	
58	Kseh Kynjoin Water Supply Scheme Gr-II	13,12,390.00	45 days	1000.00	1000.00	
59	Lumkeni Water Supply Scheme Gr-I	12,95,884.00	45 days	1000.00	1000.00	
60	Lumkeni Water Supply Scheme Gr-II	11,68,870.00	45 days	1000.00	1000.00	
61	Lad Mawrong Water Supply Scheme Gr-I	14,73,103.00	45 days	1000.00	1000.00	
62	Lad Mawrong Water Supply Scheme Gr-II	12,56,265.00	45 days	1000.00	1000.00	
63	Lad Mawrong Water Supply Scheme Gr-III	14,13,032.00	45 days	1000.00	1000.00	
64	Lad Mawrong Water Supply Scheme Gr-IV	12,53,916.00	45 days	1000.00	1000.00	
65	Lad Mawrong Water Supply Scheme Gr-V	8,88,931.00	45 days	1000.00	1000.00	
66	Ti-iamih Water Supply Scheme Gr-I	14,96,261.00	45 days	1000.00	1000.00	
67	Ti-iamih Water Supply Scheme Gr-II	7,91,172.00	45 days	1000.00	1000.00	
68	Ti-iamih Water Supply Scheme Gr-III	12,48,377.00	45 days	1000.00	1000.00	
69	Augmentation of Umbang WSS Gr-I	12,10,988.00	45 days	1000.00	1000.00	
70	Augmentation of Umbang WSS Gr-2	12,10,988.00	45 days	1000.00	1000.00	
71	Augmentation of Umbang WSS Gr-3	13,69,567.00	45 days	1000.00	1000.00	
72	Augmentation of Umbang WSS Gr-4	7,21,078.00	45 days	1000.00	1000.00	
73	Augmentation of Nongsangu WSS Gr-I	14,99,320.00	45 days	1000.00	1000.00	
74	Augmentation of Nongsangu WSS Gr-II	12,89,580.00	45 days	1000.00	1000.00	
75	Augmentation of Nongsangu WSS Gr-III	8,71,670.00	45 days	1000.00	1000.00	
76	Augmentation of Amdubighat WSS Gr-I	14,18,175.00	45 days	1000.00	1000.00	
77	Augmentation of Amdubighat WSS Gr-II	11,27,691.00	45 days	1000.00	1000.00	
78	Augmentation of Amdubighat WSS Gr-III	14,94,359.00	45 days	1000.00	1000.00	
79	Augmentation of Umkei WSS Gr-I	9,21,240.00	45 days	1000.00	1000.00	
80	Augmentation of Umkei WSS Gr-II	16,58,330.00	45 days	1000.00	1000.00	

81	Augmentation of Umkei WSS Gr-III	10,46,500.00	45 days	1000.00	1000.00	
82	Augmentation of Umkei WSS Gr-IV	14,18,100.00	45 days	1000.00	1000.00	
83	Augmentation of Umkei WSS Gr-V	7,46,700.00	45 days	1000.00	1000.00	
84	Augmentation of Umkei WSS Gr-VI	14,54,100.00	45 days	1000.00	1000.00	
85	Augmentation to give FHTCs of Mawshut WSS Group-I	14,52,934.00	45 days	1000.00	1000.00	
86	Augmentation to give FHTCs of Mawshut WSS Group-II (A)	13,52,797.00	45 days	1000.00	1000.00	
87	Augmentation to give FHTCs of Mawshut WSS Group-II (B)	13,52,797.00	45 days	1000.00	1000.00	
88	Augmentation to give FHTCs of Tyrso Pdeng WSS Group-I	12,51,878.00	45 days	1000.00	1000.00	
89	Augmentation to give FHTCs of Tyrso Pdeng WSS Group-II	11,51,741.00	45 days	1000.00	1000.00	
90	Augmentation to give FHTCs of Tyrso Pdeng WSS Group-III	11,51,741.00	45 days	1000.00	1000.00	
91	Augmentation of Langsaw WSS Gr-I	12,82,840.00	45 days	1000.00	1000.00	
92	Augmentation of Langsaw WSS Gr-II	11,39,740.00	45 days	1000.00	1000.00	
93	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group-I	7,03,028.00	45 days	1000.00	1000.00	
94	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group-II	9,98,580.00	45 days	1000.00	1000.00	
95	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group-IV	10,91,800.00	45 days	1000.00	1000.00	
96	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group-V	16,48,700.00	45 days	1000.00	1000.00	
97	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group-VI	9,38,500.00	45 days	1000.00	1000.00	
98	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group-VII	9,89,127.00	45 days	1000.00	1000.00	

99	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group VIII	10,50,097.00	45 days	1000.00	1000.00	
100	Augmentation of Bhoirymbong WSS (Lumsohpieng) Group-IX	13,23,950.00	45 days	1000.00	1000.00	

TERMS AND CONDITIONS

1. The name of Contractor, Postal Address, Registration No., P.A.N. No. must clearly be written on the tender paper as well as on the top of sealed Envelope. One attested P/P size photograph should also be affixed on the Tender Paper.
2. The rate should be quoted clearly both in figure and in words as per or above the estimated rates. Any cutting or Overwriting should bear signature of the tenderer else the same will be rejected.
3. A copy of Registration number with full postal address duly attested by Gazetted Officer/MLA should be attached on the tender papers otherwise the tender will not be considered as valid.
4. A copy of P.A.N. Card duly attested by Gazetted Officer / MLA should be attached on the tender papers otherwise the tender will not be considered as valid.
5. Non-Tribal Contractors shall have to furnish the valid Trading License from concerned Autonomous District Council, failure of which their tender will be rejected.
6. If the date of opening of tender paper happens to be a holiday, the next working day will be the date of opening of tender paper.
7. Any other information required may be obtained from the Office of the undersigned on all working days during office hours prior to expiry of this notice.
8. The undersigned reserved the right to reject any or all the tenders and also not bound to accept the lowest quoted rates without assigning any reason thereof.
9. The intended Contractor has to be acquainted with the work or location before casting the tender(s).
10. The GST/Forest Royalty/Cess shall be realised from the bills as per current Government rate / Circular.
11. No Subletting of Tender shall be entertained and a declaration of the work will be executed by the contractor & the same should be submitted along with the Tender.
12. The Name of the Work must clearly be written on top of the sealed Envelope.
13. Canvassing of any form in connection with the tenderer is Strictly prohibited.
14. Contractor are advised not to incorporate any price escalation Clause in their offer for quick and easy assessment of Tenders. Offers made should be clear & ambiguous conditional offers are likely to be rejected.
15. In case of any disputes arising during execution of the work, the decision of the Superintending Engineer (PHE) Ri-Bhoi Circle is Final & binding.
16. No Labourer under the age of 14 (Fourteen) years shall be employed. Labourers shall be paid with rates not less than those paid for similar works.
17. Less Court Fee Stamp and incomplete tender will be summarily rejected.

Executive Engineer (PHE)
Umsning Division, Umsning.

Nongpoh, the 24th February, 2021.

No.SE/PHE/RBC/TB-113/2020-2021/445. - Sealed tender duly affixed with non-refundable Court Fee Stamp against each Items of works eventually to be drawn in P.W.D. F-2 Form are hereby invited from the Registered Class I contractors of PHE Department of Meghalaya of the year 2020-21 for the following works.

Date of selling of Tender Paper - upto to 3rd March, 2021 till 5:00 P.M.

Date of closing and opening of Tender paper – 4th March, 2021 upto 2:00 P.M.

Detailed tender paper and specification etc., can be had from the Office of the undersigned during Office hours on all working days.

Sl. No.	Items of Work	Division	Tender value (in ₹)	Court fee stamp (in ₹)	Cost of Tender Paper (in ₹)	Time of completion
1.	Laying of Distribution system for FHTCs of Umkon WSS (Group-I)	Nongpoh	₹ 7,38,500.00	₹ 300.00	₹ 1,000.00	30 Days
2.	Laying of Distribution system for FHTCs of Umkon WSS (Group-II)	Nongpoh	₹ 7,38,500.00	₹ 300.00	₹ 1,000.00	30 Days
3.	Construction of Intake at Khlieh Umbih & Umkylla and SSF (TP 1) for Mynsain and Umkynram of Mynsain WSS (Group-I)	Umsning	₹ 16,50,550.00	₹ 400.00	₹ 1,500.00	30 Days
4.	Construction of SSF (TP 2) for Pdeng Mynsain, Umthlu & Lumsyntung and staging CWR No.-1 of Mynsain WSS (Group-II)	Umsnihg	₹ 16,29,530.00	₹ 400.00	₹ 1,500.00	30 Days
5.	Construction of CWR No. 2, staging CWR No. 3 & CWR No. 4 of Mynsain WSS (Group-III)	Umsning	₹ 13,74,800.00	₹ 400.00	₹ 1,000.00	30 Days
6.	Laying of RWG Main from Intake at Khlieh Umbih to TP No. 1 and RWG main from Intake at Umkylla Sohphoh to TP No. 2 of Mynsain WSS (Group-IV)	Umsning	₹ 17,09,150.00	₹ 400.00	₹ 1,500.00	30 Days
7.	Laying of CWG feeder main of 40 mm, 25 mm, Laying of gravity sub feeder line to common headers of 20 mm, Laying of clear water from the common headers for FHTCs of Mynsain WSS (Group-V).	Umsning	₹ 30,48,330.00	₹ 1,000.00	₹ 2,000.00	30 Days

TERMS & CONDITIONS:

1. The intended Contractor has to acquaint with the work or location before casting the tender(s).
2. The rates are to be quoted in flat percentage basis i.e., ABOVE/AS PER the existing Schedule of Rate of Public health Engineering (PHE).
3. The rate should be quoted clearly both in figure and words. Any cutting or overwriting should bear the signature of the tenderer or else the same will be rejected.
4. All the constructional materials like, Specials Cement T.S./M.S., rod etc., will have to be arranged by the contractor.
5. Cess/Forest Royalty & GST including surcharge on Contract works shall be levied on all payments as applicable shall be realized from the bills as per current Government Rate/Circular.
6. The Tenderer should be accompanied with the Sales Tax, Income Tax and Professional Tax clearance certificate. Non-Tribal contractors shall have to furnish the Valid Trading License from the Khasi Hills Autonomous District Council along with the tender failing which the tender will be rejected.
7. Selected contractor will have to deposit the requisite security deposit 1% or 2% (as applicable) of the tendered amount within 5 (five) days from the date of issue of preliminary work order, and sign the tender agreement.
8. The acceptance of tender rests with the Tender Board/Addl. Chief Engineer PHE as applicable, who is not bound to accept the lowest or any tender and reserves the right to reject any or all tenders or all tenderers received or accept the tender in whole or part without assigning any reason thereof.
9. No subletting of tender shall be entertained and a declaration as the work will be executed by himself/herself must be submitted along with the tender.
10. A copy of the recent passport size duly attested by the Gazetted Officer.
11. The current resignation number (with proof) and full postal address should be given along with the tenders.
12. The name of work must clearly be written on the Sealed Envelope.
13. The tender shall be drawn up in F-2 form and all clauses and terms stipulated in the F-2 form tender documents will be binding on the contractor.
14. Canvassing in any form in connection with the tenderer is strictly prohibited.
15. Contractors are advised not to incorporate any price escalation Clause in their offer for quick and easy assessment of tenders. Offers made should be clear and ambiguous conditional offers are likely to be rejected.
16. In case any dispute arising during execution of the work, the decision of the Executive Engineer PHE Umsning/Nongpoh Division decision shall be final and binding.
17. No underage labour shall be employed on the work and labourers shall be paid at the rates of wages not less than those paid for similar works. No foreigner shall be employed as labourers.
18. In case if the date of opening of tender paper falls on holiday, the next working day will be the date of opening of tender paper.
19. Permanent Account Number (PAN) is compulsory, without which Tender paper will be automatically rejected.
20. **For works above ₹ 15,00,000.00 the successful tenderer will have to submit Details of turnover of the contractor/firms for the last 3 (three) years from the Chartered Accountants or other appropriate authorities.**

Superintending Engineer (PHE),
Ri-Bhoi Circle, Nongpoh.

Ampati, the 23rd February, 2021.

SHORT NOTICE INVITING TENDER

No.SWGHA/DRDA/RBN/TND.12/2021/74. - 1. Sealed tenders subsequently to be drawn up in M.P.W.D. F-2 form of Tender agreement duly affixed with a non-refundable Court Fee Stamp of ₹ 2,000/- (Rupees two thousand) only are hereby invited by the undersigned on behalf of the Governor of Meghalaya, from Class-I Registered Contractors under the Chief Engineer P.W.D. (Building) and having valid Labour License and requisite qualifications for the under mentioned work and will be received in the office of Project Director DRDA, South West Garo Hills, Ampati upto 2:00 p.m. of 5th March, 2021. The tenders will be opened on the same date at 2:15 P.M. in presence of the tenderers or their authorized representatives whoso desire to attend. If the last date happens to be a holiday, the next working day will be considered as the date of receiving and opening of tenders.

Detailed tender papers may be obtained from the Office of the Project Director DRDA, South West Garo Hills, Ampati on payment of non-refundable amount of ₹ 1,000/- (Rupees one thousand) only per set either in cash payable to the District Project Management Unit (DPMU), Ampati or by bank draft drawn in favour of Project Director, DRDA, Ampati during Office hours on any working day up to 2:00 pm of 4th March, 2021.

2. NAME OF WORK:- Mini Fruit Processing Unit (CFC).
3. NATURE OF WORK:- Construction of Mini Fruit Processing Unit Under Rurban Mission. As per ANNEXURE – I.
4. TENDER VALUE:- ₹ 82,02,377/- (Rupees eighty two lakh two thousand three hundred seventy seven) only.
5. TIME OF COMPLETION:- 18 (eighteen) months from the date of issue of Final Work Order.
6. RATES:- Rates are to be quoted on flat percentage basis *i.e.* AT PAR / ABOVE the Schedule of Rates for Building Works for 2015-16 as applicable in Garo Hills and AT PAR / ABOVE the Schedule of Rates for Electrical Works for 2016-17.
7. Non-Tribal Contractors shall have to produce valid Trading License before purchasing Tender Forms failing which no tender papers will be issued.
8. Other details can be seen in the Detailed Notice Inviting Tender.
9. 1% Labour cess under Meghalaya Building & other Constructions Workers (Regulations of Employment & Condition of Service) Rules 2008 shall be deducted from the Contractor's Bill.
10. The Deputy Commissioner & Chairman, District Rural Development Agency, South West Garo Hills, Ampati reserves the right to accept or reject any or all tender without assigning any reason thereof.

Deputy Commissioner & Chairman
District Rural Development Agency
South West Garo Hills, Ampati.

ANNEXURE - I**NAME OF WORK: Mini Fruit Processing Unit (CFC).**

Sl. No.	DESCRIPTION OF WORKS	APPROXIMATE TENDER VALUE
1	Construction of Mini Fruit Processing Unit Under Rurban Mission. (i) <i>Construction of Common Facility Centre Building (CFC) Annexure-A.</i> (ii) <i>Installation of Machinery and Equipment (Annexure-B).</i> (iii) <i>Transportation, Installation and Logistics @ 10 of M/c.</i>	₹ 82,02377/- (Rupees eighty two lakh two thousand three hundred seventy seven) only.
	TOTAL =	₹ 82,02,377/- (Rupees eighty two lakh two thousand three hundred seventy seven) only.

Deputy Commissioner & Chairman
District Rural Development Agency
South West Garo Hills, Ampati.

Mawkyrwat, the 24th February, 2021.

No.EE/PHE/MWT/TB-7/2020-2021/560. - On behalf of the Governor of Meghalaya, Sealed Tenders subsequently to be drawn up in M.P.W.D. F-2 form of Tender agreement duly affixed with a non-refundable Court Fee Stamp are hereby invited by the undersigned on behalf of the Governor of Meghalaya, Registered Contractor Class-I of PHE, Meghalaya, Shillong, Class-II of SE (PHE), Western Circle, Nongstoin and Class-III of PHE, Mawkyrwat Division, Mawkyrwat for the year 2020-2021 and having valid Labour License and requisite qualifications for the under mentioned work and will be received in the office of the Executive Engineer, PHE, Mawkyrwat Division, Mawkyrwat (Technical Branch) upto the **14:00 hours of 5th March, 2021**. The tenders will be opened on the same date at 15:00 hours in presence of the tenderers or their authorized representatives who so desire to attend. If the last date happens to be a holiday, the next working day will be considered as the date of receiving and opening of tenders.

Detailed tender papers may be obtained from the Technical Branch of this office from the 25th February, 2021 upto the **17:00 hours of 10th March, 2021** on payment of a non-refundable fee of **₹ 300/- (Rupees three hundred)** only, per set in cash payable to the Cashier of this office during office hours on any working day, from **10:00 A.M. upto 2:00 P.M.**

Executive Engineer, PHE,
Mawkyrwat Division, Mawkyrwat.